



2152
#4
PATENT

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In Re Application of:

Steven E. Swenson et al.

Serial No.: 09/904,465

Group Art Unit: 2152

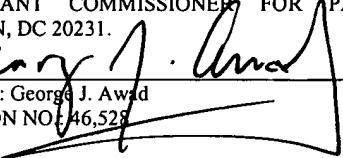
Filing Date: July 13, 2001

Examiner: Not Yet Assigned

For: SYSTEM AND METHODS FOR AUTOMATIC DSP PROCESSING

DATE OF DEPOSIT: November 16 2001

I HEREBY CERTIFY THAT THIS PAPER IS BEING
DEPOSITED WITH THE UNITED STATES POSTAL
SERVICE AS FIRST CLASS MAIL, POSTAGE PREPAID ON
THE DATE INDICATED ABOVE AND IS ADDRESSED TO
THE ASSISTANT COMMISSIONER FOR PATENTS,
WASHINGTON, DC 20231.


TYPED NAME: George J. Awad
REGISTRATION NO. 46,528

Assistant Commissioner for Patents
Washington, D.C. 20231

Dear Sir:

INFORMATION DISCLOSURE STATEMENT

Pursuant to 37 C.F.R. §1.56 and in accordance with 37 C.F.R. §§1.97-1.98, information relating to the above-identified application is hereby disclosed. Inclusion of information in this statement is not to be construed as an admission that this information is material as that term is defined in 37 C.F.R. §1.56(b).

In accordance with §1.97(b), since this Information Disclosure Statement is being filed either within three months of the filing date of the above-identified application, within three months of the date of entry into the national stage of the above identified application as set forth in §1.491, before the mailing date of a first Office Action on the merits of the above-identified application, or before the mailing date of a first office action after the filing of request for continued examination under §1.114, no additional fee is required.

RECEIVED
DEC 11 2001
Technology Center 2100

- In accordance with §1.129(a), this Information Disclosure Statement is being filed in connection with the first or second After Final Submission, therefore:
 - Certification in Accordance with §1.97(e) is attached; or
 - The fee of \$180.00 as set forth in §1.17(p) is attached.
- In accordance with §1.97(c), this Information Disclosure Statement is being filed after the period set forth in §1.97(b) above but before the mailing date of either a Final Action under §1.113 or a Notice of Allowance under §1.311, or before an action that otherwise closes prosecution in the application, therefore:
 - Certification in Accordance with §1.97(e) is attached; or
 - The fee of \$180.00 as set forth in §1.17(p) is attached.
- In accordance with §1.97(d), this Information Disclosure Statement is being filed after the mailing date of either a Final Action under §1.113 or a Notice of Allowance under §1.311 but before, or simultaneously with, the payment of the Issue Fee, therefore included are: Certification in Accordance with §1.97(e); and the submission fee of \$180.00 as set forth in §1.17(p).
- Copies of each of the references listed on the attached Form PTO-1449 are enclosed herewith.
- Copies of references listed on the attached Form PTO-1449 are enclosed herewith.

EXCEPT THAT:

- In view of the voluminous nature of references [list as appropriate], and the likelihood that these references are available to the Examiner, copies are not enclosed herewith.
- In accordance with §1.98(d), copies of the following references listed on the attached Form PTO-1449 are not enclosed herewith because they were previously cited by or submitted to the U.S. Patent and Trademark Office in patent application(s) for which a claim for priority under 35 U.S.C. §120 have been made in the instant application:

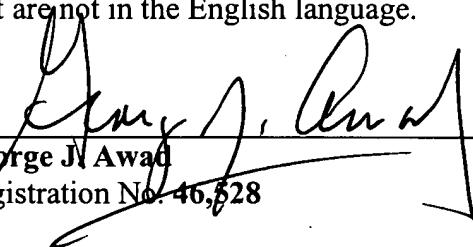
Copies of references [list as appropriate] listed on the attached Form PTO-1449 were previously cited by or submitted to the Patent and Trademark Office in prior application Serial No. , filed .

If any of the foregoing publications are not available to the Examiner, Applicant will endeavor to supply copies at the Examiner's request.

Please charge any deficiency or credit any overpayment to Deposit Account No. 23-3050. This form is submitted in duplicate.

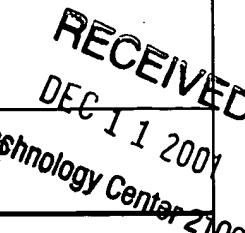
There are no listed references that are not in the English language.

Date: November 14, 2001


George J. Awad
Registration No. 46,528

WOODCOCK WASHBURN LLP
One Liberty Place - 46th Floor
Philadelphia, PA 19103
Telephone: (215) 568-3100
Facsimile: (215) 568-3439

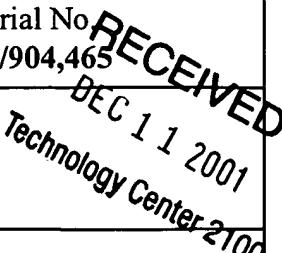
© 2001 WW

Form PTO-1449 Modified		Docket No. MSFT-0584/167511.2	Serial No. 09/904,465
List of Patent and Publications Cited by Applicant (Use several sheets if necessary)		 Applicant Steven E. Swenson et al.	
U.S. Department of Commerce Patent and Trademark Office		Filing Date July 13, 2001	 Group Technology Center 200
OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)			
AA	Appelbaum, M. et al., "Agile – A CAD/ CAM/ CAE Interface Language," <i>Society of Manufacturing Engineers: Technical Paper, 1984, MS84-182</i> , 1-19		
AB	Bendix, L. et al., "CoEd – A Tool for Versioning of Hierarchical Documents," B. Magnusson (Ed.), <i>System Configuration Management, Proc. ECOOP'98 SCM-8 Symposium</i> , Brussels, Belgium, July 20-21, 1998		
AC	Biglari-Abhari, M. et al., "Improving Binary Compatibility in VLIW Machines through Compiler Assisted Dynamic Rescheduling," <i>IEEE, 2000</i> , 386-393		
AD	Boneh, D. et al., "Collusion-secure fingerprinting for digital data," <i>IEEE Trans. Information Theory, 1998, 44(5)</i> , 1897-1905		
AE	Bratsberg, S.E., "Unified Class Evolution by Object-Oriented Views," Pernul, G. et al. (Eds.), <i>Entity-Relationship Approach – ER '92. Proc. 11th International Conference on the Entity-Relationship Approach</i> , Karlsruhe, Germany, October 7-9, 1992 , 423-439		
AF	Bresin, R. et al., "Synthesis and decoding of emotionally expressive music performance," <i>IEEE SMC'99 Conference Proceedings. 1999 IEEE Int'l Conf. On Systems, Man, and Cybernetics, 1999, Vol. 4</i> , 317-322		
AG	Camurri, A. et al., "Multi-Paradigm Software Environment for the Real-Time Processing of Sound, Music and Multimedia," <i>Knowledge-Based Systems, 1994, 7(2)</i> , 114-126		
AH	Camurri, A. et al., "Music and Multimedia Knowledge Representation and Reasoning - The Harp System," <i>Computer Music J., 1995, 19(2sum)</i> , 34-58		
AI	Camurri, A., "Music content processing and multimedia: Case studies and emerging applications of intelligent interactive systems," <i>J. New Music Res., 1999, 28(4)</i> , 351-363		
AJ	Clamen, S.M., "Schema Evolution and Integration", <i>Distributed and Parallel Databases 2, 1994, 2</i> , 101-126		
EXAMINER		DATE CONSIDERED	

Form PTO-1449 Modified			Docket No. MSFT-0584/167511.2	Serial No. 09/904,465
List of Patent and Publications Cited by Applicant (Use several sheets if necessary)			Applicant Steven E. Swenson et al.	RECEIVED DEC 11 2001 Technology Center 2100
U.S. Department of Commerce Patent and Trademark Office		Filing Date July 13, 2001	Group 2152	

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

	AK	Cohen, W.W. et al., "Web-collaborative filtering: recommending music by crawling the Web," <i>Computer Networks</i> , 2000 , 33, 685-698
	AL	Conradi, R. "Version Models for Software Configuration Management," <i>ACM Computing Surveys</i> , JUNE 1998 , 30(2), 232-282
	AM	Conradi, R. et al., "Change-Oriented Versioning: Rationale and Evaluation," <i>Third Int'l. Workshop – Software Engineering & Its Applications</i> , December 3-7, 1990 , Toulouse, France, pp. 97-108
	AN	Craner, P.M., "New Tool for an Ancient Art: The Computer and Music," <i>Computers and Humanities</i> , 1991 , 25, 303-313
	AO	De Castro, C. et al., "Schema Versioning for Multitemporal Relational Databases," <i>Information Systems</i> , 1997 , 22(5), 249-290
	AP	DeRoure, D.C. et al., "Content-based navigation of music using melodic pitch contours," <i>Multimedia Systems</i> , 2000 , 8, 190-200
	AQ	Drossopoulou, S. et al., "A Fragment Calculus –towards a model of Separate Compilation, Linking and Binary Compatibility," <i>14th Symposium on Logic in Computer Science – IEEE Computer Society</i> , July 2-5, 1999 , Los Alamitos, California, pp 147-156
	AR	Eisenberg, M. "Programmable applications: exploring the potential for language/interface symbiosys," <i>Behaviour & Information Technology</i> , 1995 , 14(1), 56-66
	AS	Franconi, E. et al., "A Semantic Approach for Schema Evolution and Versioning in Object-Oriented Databases," J. Lloyd et al., (Eds.), <i>Computational Logic – CL 2000: Proc. First Int'l. Conference</i> , July 24-28, 2000 , London, UK, pp. 1048-1062
	AT	Gal, A. et al., "A Multiagent Update Process in a Databased with Temporal Data Dependencies and Schema Versioning," <i>IEEE Transactions on Knowledge and Data Engineering</i> , January/February 1998 , 10(1), 21-37
EXAMINER		DATE CONSIDERED

Form PTO-1449 Modified List of Patent and Publications Cited by Applicant (Use several sheets if necessary) U.S. Department of Commerce Patent and Trademark Office			Docket No. MSFT-0584/167511.2	Serial No. 09/904,465
		Applicant Steven E. Swenson et al.		
		Filing Date July 13, 2001	Group 2152	
OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)				
	AU	Gentner, T. et al., "Perceptual classification based on the component structure of song in European starlings," <i>J. Acoust. Soc. Am.</i> , June 2000 , 107(6), 3369-3381		
	AV	Goddard, N.J., "Using the "C" programming language for interface control," <i>Laboratory Microcomputer</i> , Autumn 1982 , 15-22		
	AW	Goldman, C.V. et al., "NetNeg: A connectionist-agent integrated system for representing musical knowledge," <i>Annals of Mathematics and Artificial Intelligence</i> , 1999 , 25, 69-90		
	AX	Goldstein, T.C. et al., "The Object Binary Interface- C++ Objects for Evolvable Shared Class Libraries," <i>USENIX Association - Proc. of the 1994 USENIX C++ Conference</i> , April 11-14, 1994 , Cambridge, MA, 1-19		
	AY	Hori, T. et al., "Automatic music score recognition/play system based on decision based neural network," <i>1999 IEEE Third Workshop on Multimedia Signal Processing</i> , Ostermann, J. et al. (eds.), 1999 , 183-184		
	AZ	Kieckhefer, E. et al., "A computer program for sequencing and presenting complex sounds for auditory neuroimaging studies," <i>J. Neurosc. Methods</i> , August, 2000 , 101(1), 43-48		
	BA	Kirk, R. et al., "Midas-Milan - an open distributed processing system for audio signal processing," <i>J. Audio Enginerr. Soc.</i> , 1996 , 44(3), 119-129		
	BB	Krulwich, B., "Lifestyle finder - Intelligent user profiling using large-scale demographic data," <i>AI Magazine</i> , 1997 , 18(2sum), 37-45		
	BC	Lethaby, N., "Multitasking with C++," <i>Proc. of the 5th Annual Embedded Systems Conference</i> , 5-8 October 1993 , Santa Clara, CA , 2, 103-120		
	BD	Lewine, D., "Certifying Binary Applications," <i>Proc. of the Spring 1992 EurOpen & USENIX Workshop</i> , April 6-9, 1992 , Jersey, Channel Islands, 25-32		
	BE	Li, D. et al., "Classification of general audio data for content-based retrieval," <i>Pattern Recogn. Letts.</i> , 2001 , 22(5), 533-544		
EXAMINER			DATE CONSIDERED	

Form PTO-1449 Modified		
List of Patent and Publications Cited by Applicant (Use several sheets if necessary) U.S. Department of Commerce Patent and Trademark Office		
	Docket No. MSFT-0584/167511.2	Serial No. 09/904,465
Applicant Steven E. Swenson et al.		
Filing Date July 13, 2001	Group 2152	RECEIVED DEC 11 2001 Technology Center 2000
OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)		
BF	Liang, R.H. et al., "Impromptu Conductor - A Virtual Reality System for Music Generation Based on Supervised Learning," <i>Displays</i> , 1994, 15(3), 141-147	
BG	Logrippo, L., "Cluster analysis for the computer-assisted statistical analysis of melodies," <i>Computers Humanities</i> , 1986, 20(1), 19-33	
BH	Moreno, P.J. et al., "Using the Fisher Kernal Method for Web Audio Classification," <i>2000 IEEE Int'l Conf. On Acoustics, Speech, and Signal Processing, Proceedings</i> , 2000, Vol. 4, 2417-2420	
BI	Morrison, I. et al., "The Design and Prototype Implementation of a "Structure Attribute" Model for Tool Interface Within an IPSE," <i>Microprocessing and Microprogramming</i> , 1986, 18, 223-240	
BJ	Oiwa, Y. et al., "Extending Java Virtual Machine with Integer-Reference Conversion," <i>Concurrency: Practice and Experience</i> , May 2000, 12(6), 407-422	
BK	Oussalah, C. et al., "Complex Object Versioning," <i>Advanced Information Systems Engineering - Proc. 9th Int'l. Conference, CaiSE'97, June 16-20, 1997</i> , Catalonia Spain, 259-272	
BL	Pesavento, M. et al., "Unitary Root-MUSIC with a Real-Valued Eigendecomposition: A Theoretical and Experimental Performance Study," <i>IEEE Transactions on Signal Processing</i> , May 2000, 48(5), 1306-1314	
BM	Pirn, R., "Some Objective and Subjective Aspects of 3 Acoustically Variable Halls," <i>Appl. Acoustics</i> , 1992, 35(3), 221-231	
BN	Proper, H.A., "Data schema design as a schema evolution process", <i>Data & Knowledge Engineering</i> , 1997, 22, 159-189	
BO	Roddick, J.F., "A survey of schema versioning issues for database systems," <i>Information and Software Technology</i> , 1995, 37(7), 383-393	
BP	Rose, E. et al., "Schema versioning in a temporal object-oriented data model," <i>Int'l. Journal on Artificial Intelligence Tools</i> , 1998, 7(3), 293-318	
EXAMINER		DATE CONSIDERED

Form PTO-1449 Modified		Docket No. MSFT-0584/167511.2	Serial No. 09/904,465
List of Patent and Publications Cited by Applicant (Use several sheets if necessary)		Applicant Steven E. Swenson et al.	
U.S. Department of Commerce Patent and Trademark Office		Filing Date July 13, 2001	Group 2152

RECEIVED
DEC 11 2001
Technology Center 2100

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

	BQ	Serra, A., "New solutions for the transmission of music. Possible methods in view of the reduction of the pass band," <i>Revista Espanola de Electronica</i> , July, 1976, 23(260), 34-35 (English language abstract attached)
	BR	Smith, M.W.A., "A relational database for the study and quantification of tempo directions in music," <i>Comput. Humanities</i> , 1994, 28(2), 107-116
	BS	Speiser, J.M. et al., "Signal processing computations using the generalized singular value decomposition," <i>Proceedings of SPIE - The Int'l Society for Optical Engineering. Real Time Signal Processing VII</i> , Bellingham, WA, 1984, 47-55
	BT	Surveyer, J., "C+ = (C-Sharp == Microsoft Java++)? True:False;", <i>Java Report</i> , October 2000, 5 pages
	BU	Tsotras, V. et al., "Optimal Versioning of Objects," <i>Eighth Int'l. Conference on Data Engineering - IEEE Computer Society</i> , February 2-3, 1992, Tempe, Arizona, 358-365
	BV	Urtado, C. et al., "Complex entity versioning at two granularity levels," <i>Information Systems</i> , 1998, 23(3/4), 197-216
	BW	Wieczerzycki, W., "Advanced versioning mechanisms supporting CSCW environments," <i>Journal of Systems Architecture</i> , 1997, 43, 215-227
	BX	Yoder, M.A. et al., "Using Multimedia and the Web to teach the theory of digital multimedia signals," <i>Proceedings. Frontiers in Education, 1995 25th Annual Conference. Engineering Education for the 21st Century</i> , IEEE, Budny, D. et al. (eds.), November 1-4, 1995, Vol. 2, Atlanta, GA
	BY	Zhang, T. et al., "Audio content analysis for online audiovisual data segmentation and classification," <i>IEEE Trans. on Speech and Audio Processing</i> , May, 2001, 9(4), 441-457
	BZ	Zhang, T. et al., "Heuristic approach for generic audio data segmentation and annotation," <i>Proceedings ACM Multimedia 99</i> , 1999, 67-76

EXAMINER

DATE CONSIDERED